

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



**Figure 1**

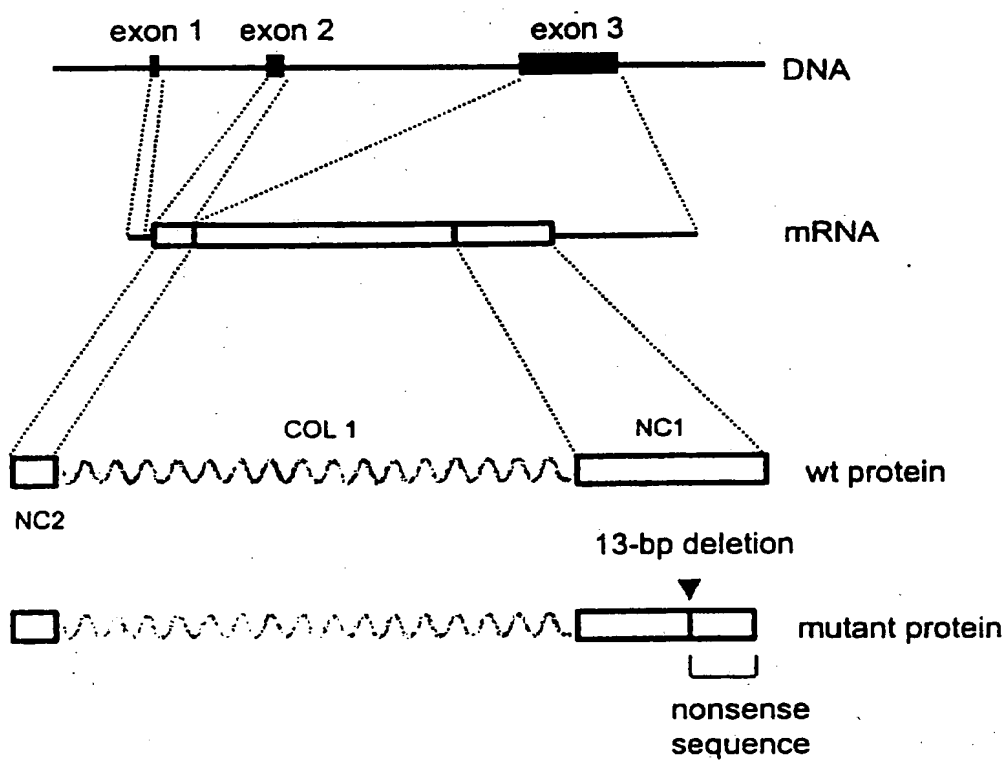




Figure 2

---  
GTC ATG CCT GAT GGC TTC ATA AAG GCA GGC CAG AGG CCC AGG CTT TCT GGG ATG CCG CTT mouse wt  
val met pro asp gly phe ile lys ala gly gln arg pro arg leu ser gly met pro leu

540  
GTC AGT GCT AAC CAC GGG GTA ACA GGT ATG CCC GTG TCT GCT TTT ACT GTC ATT CTC TCT mouse wt  
val ser ala asn his gly val thr gly met pro val ser ala phe thr val ile leu ser

560  
AAA GCT TAC CCA GCA GTA GGT GCC CCC ATC CCA TTT GAT GAG ATT CTG TAC AAT AGG CAG mouse wt  
lys ala tyr pro ala val gly ala pro ile pro phe asp glu ile leu tyr asn arg gln

580  
CAG CAT TAC GAC CCA AGA TCT GGT ATC TTT ACC TGT AAG ATC CCA GGC ATA TAC TAT TTC mouse wt  
gln his tyr asp pro arg ser gly ile phe thr cys lys ile pro gly ile tyr tyr phe

600  
TCC TAC CAC GTG CAT GTG AAA GGG ACT CAC GTT TGG GTA GGC CTG TAT AAG AAC GGC ACG mouse wt  
ser tyr his val his val lys gly thr his val trp val gly leu tyr lys asn gly thr

ACA  
thr mouse 13del  
thr human 13del

620  
CCT ACG ATG TAC ACG TAT GAT GAG TAC AGC AAA GGC TAC CTG GAT CAG GCT TCA GGG AGT mouse wt  
pro thr met tyr thr tyr asp glu tyr ser lys gly tyr leu asp gln ala ser gly ser

CGT ATG ATG AGT ACA GCA AAG GCT ACC TGG ATC AGG CTT CAG GGA GTG CAA TCA TGG AGC mouse 13del  
arg met met ser thr ala lys ala thr trp ile arg leu gln gly val gln ser trp ser human 13del  
pro met met asn thr pro lys ala thr trp ile arg leu gln gly val pro ser ser ile

640  
GCA ATC ATG GAG CTC ACA GAA AAT GAC CAG GTA TGG CTC CAA TTG CCC AAT GCA GAA TCA mouse wt  
ala ile met glu leu thr glu asn asp gln val trp leu gln leu pro asn ala glu ser

TCA CAG AAA ATG ACC AGG TAT GGC TCC AAT TGC CCA ATG CAG AAT CAA ACG GCC TCT ACT mouse 13del  
ser gln lys met thr arg tyr gly ser asn cys pro met gln asn gln thr ala ser thr human 13del  
ser gln lys met thr arg cys gly ser ser phe pro met pro ser gln met ala tyr thr

660  
AAC GGC CTC TAC TCC TCT GAG TAC GTC CAC TCG TCC TTC TCA GGA TTC CTA GTG GCT CCC mouse wt  
asn gly leu tyr ser ser glu tyr val his ser ser phe ser gly phe leu val ala pro

671  
CCT CTG AGT ACG TCC ACT CGT CCT TCT CAG GAT TCC TAG  
pro leu ser thr ser thr arg pro ser gln asp ser STOP mouse 13del  
pro leu ser met ser thr pro leu ser gln asp ser STOP human 13del

680  
ATG TGA mouse wt  
met STOP

Figure 3

Fig. 3a

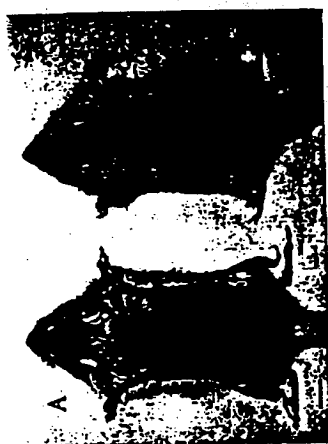


Fig. 3b



Fig. 3c



Fig. 3d



Fig. 3e

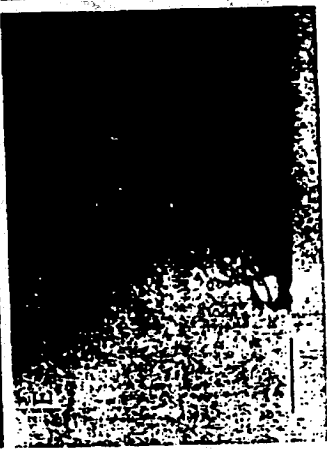


Fig. 3f

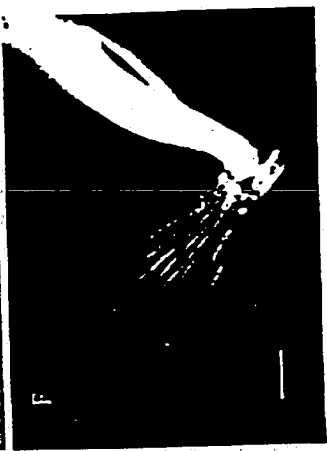




Fig. 4b

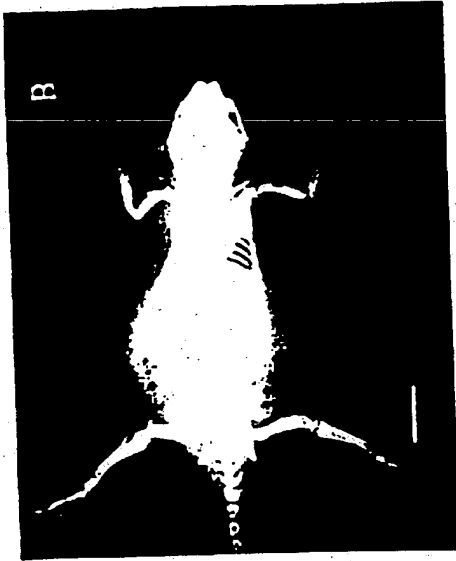


Figure 4

Fig. 4d

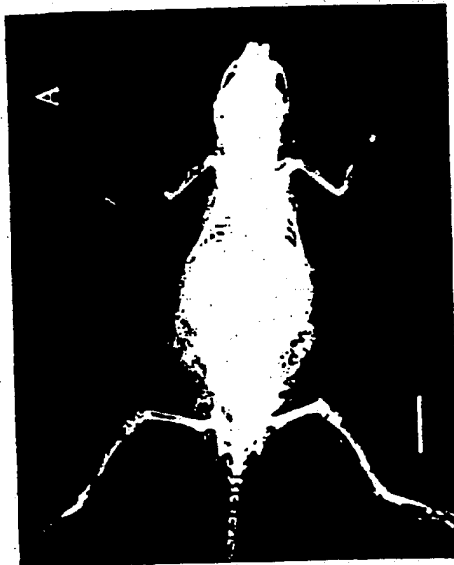
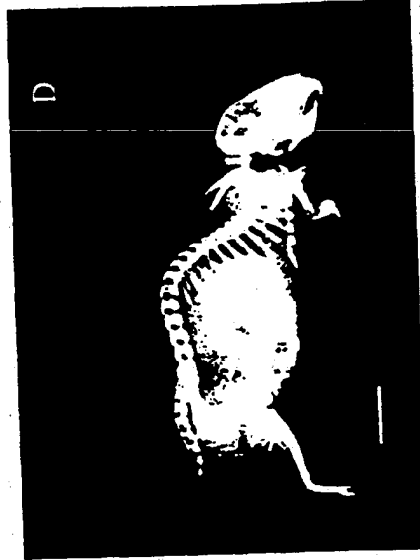


Fig. 4a



Fig. 4c



Fig. 5b



Figure 5

Fig. 5d



Fig. 5a



Fig. 5c





Figure 6

Fig. 6b



Fig. 6d

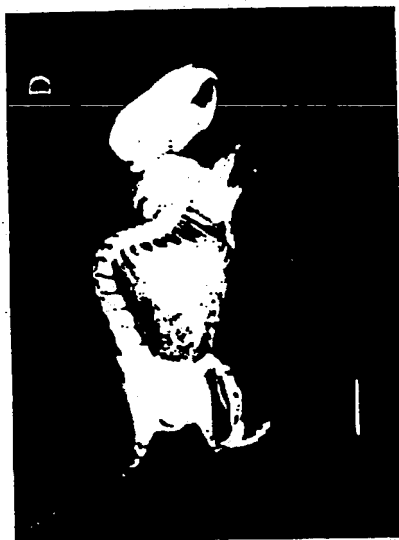


Fig. 6a

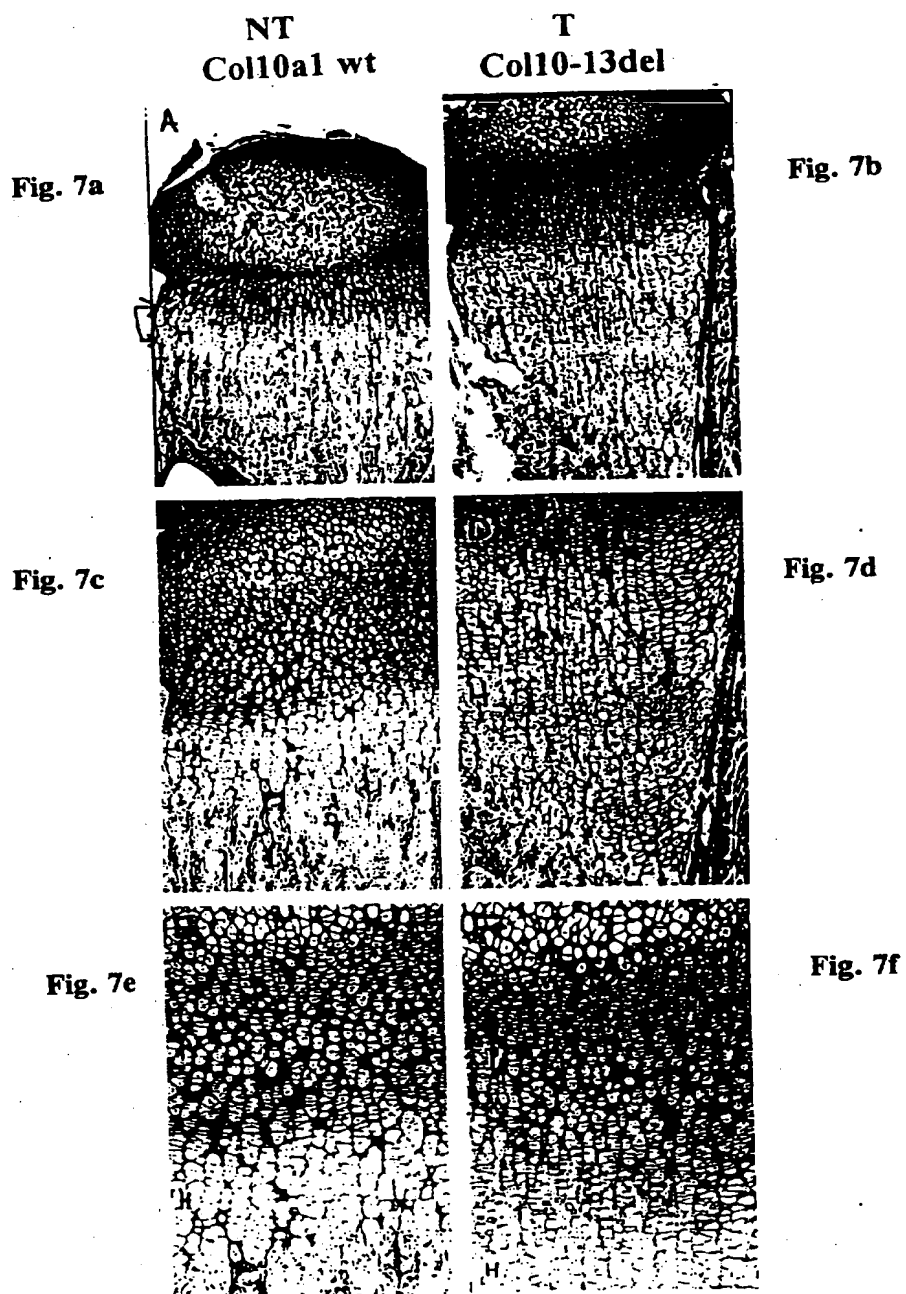


Fig. 6c



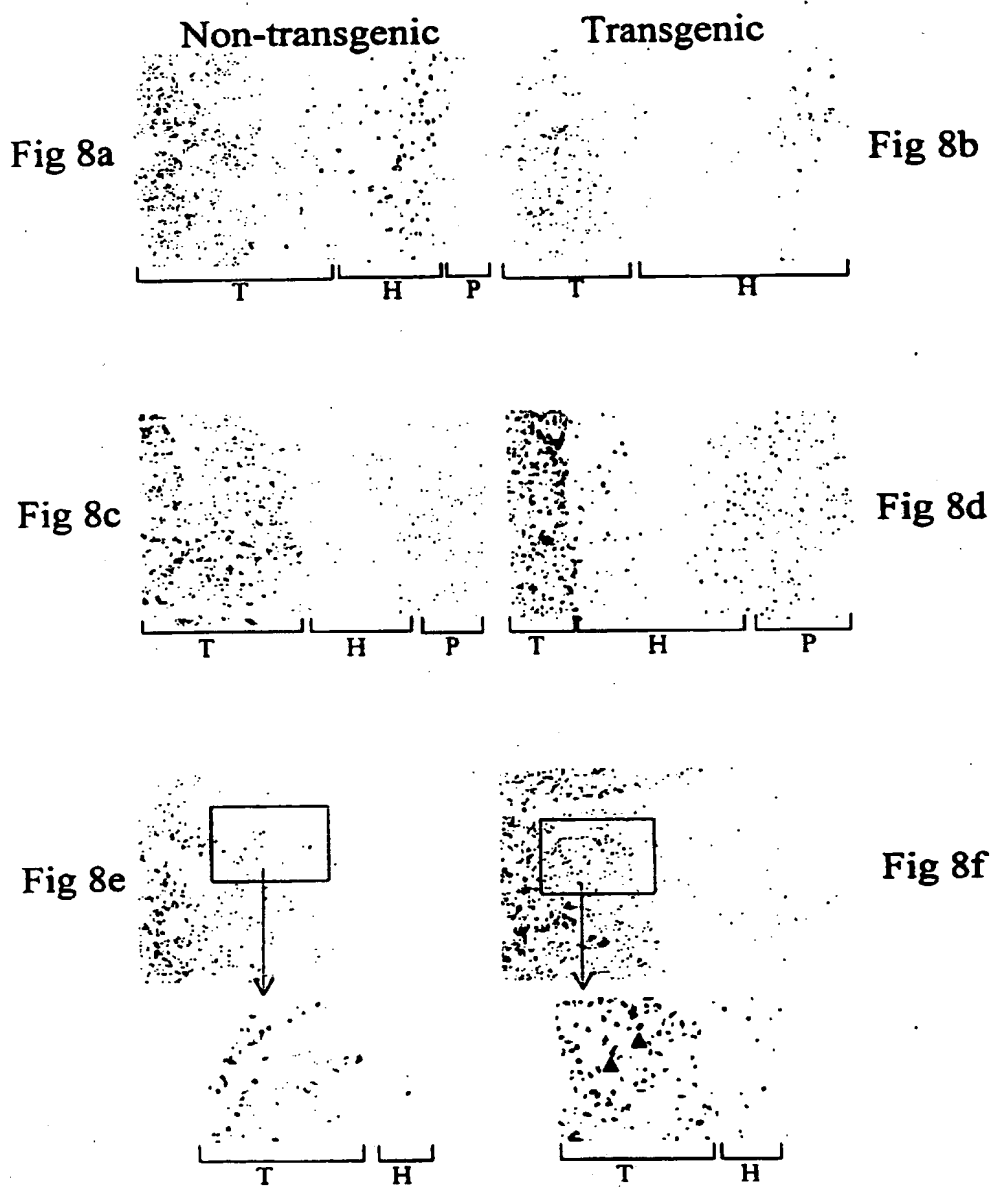


Figure 7





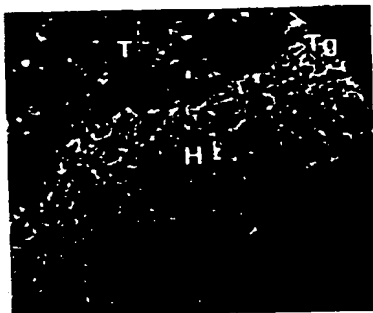
**Figure 8**



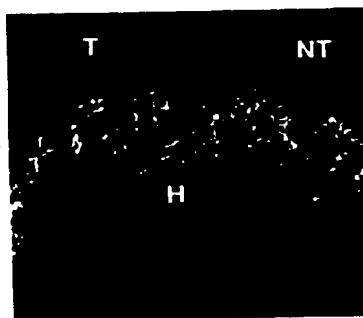


**Figure 9**

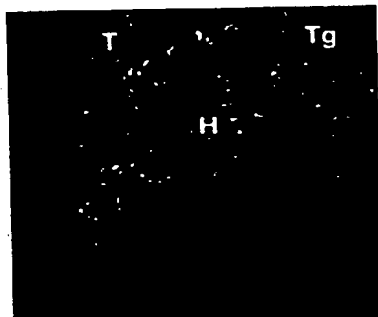
**Fig 9a**  
**(100X)**



**Fig 9b**  
**(100X)**



**Fig 9c**  
**(100x)**



**Fig 9d**  
**(1000X)**

